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Kong, T.; Wilken, K.D.;
Microarchitecture, 1998. MICRO-31. Proceedings. 31st Annual ACM/IEEE International Symposiun
30 Nov.-2 Dec. 1998 Page(s):297 - 307
Digital Object Identifier 10.1109/MICRO.1998.742791
AbstractPlus | Full Text: PDF(344 KB) IEEE CNF
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2. **Ant direction hybrid differential evolution for solving large capacitor placement problems**
Ji-Pyng Chiou; Chung-Fu Chang; Ching-Tzong Su;
Power Systems, IEEE Transactions on
Volume 19, Issue 4, Nov. 2004 Page(s):1794 - 1800
Digital Object Identifier 10.1109/TPWRS.2004.835651
AbstractPlus | References | Full Text: PDF(440 KB) IEEE JNL
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3. **Optimizing amplifier placements in a multiwavelength optical LAN/MAN: the unequally powe case**
Ramamurthy, B.; Iness, J.; Mukherjee, B.;
Networking, IEEE/ACM Transactions on
Volume 6, Issue 6, Dec. 1998 Page(s):755 - 767
Digital Object Identifier 10.1109/90.748087
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4. **Covariance-based hardware selection-Part I: globally optimal actuator selection**
Chmielewski, D.J.; Jui-Kun Peng;
Control Systems Technology, IEEE Transactions on
Volume 14, Issue 2, March 2006 Page(s):355 - 361
Digital Object Identifier 10.1109/TCST.2005.863670
AbstractPlus | Full Text: PDF(232 KB) IEEE JNL
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5. **A progressive register allocator for irregular architectures**
Koes, D.; Goldstein, S.C.;
Code Generation and Optimization, 2005. CGO 2005. International Symposium on
20-23 March 2005 Page(s):269 - 279
Digital Object Identifier 10.1109/CGO.2005.4

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6. **Optimal capacitor placement in radial distribution networks**
Gallego, R.A.; Monticelli, A.J.; Romero, R.;
Power Systems, IEEE Transactions on
Volume 16, Issue 4, Nov. 2001 Page(s):630 - 637
Digital Object Identifier 10.1109/59.962407
AbstractPlus | References | Full Text: PDF(248 KB) IEEE JNL
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7. **Fuzzy dynamic programming approach to reactive power/voltage control in a distribution su**
Feng-Chang Lu; Yuan-Yih Hsu;
Power Systems, IEEE Transactions on
Volume 12, Issue 2, May 1997 Page(s):681 - 688
Digital Object Identifier 10.1109/59.589651
AbstractPlus | Full Text: PDF(836 KB) IEEE JNL
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8. **A solution to the balancing problem in N-path filters**
Fettweis, A.; Wupper, H.;
Circuits and Systems, IEEE Transactions on [legacy, pre - 1988]
Volume 18, Issue 3, May 1971 Page(s):403 - 405
AbstractPlus | Full Text: PDF(400 KB) IEEE JNL
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9. **Computer control algorithms for a tubular ammonia reactor**
Patnaik, L.; Viswanadham, N.; Sarma, I.;
Automatic Control, IEEE Transactions on
Volume 25, Issue 4, Aug 1980 Page(s):642 - 651
AbstractPlus | Full Text: PDF(864 KB) IEEE JNL
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10. **Solving the net matching problem in high-performance chip design**
Carragher, R.J.; Chung-Kuan Cheng; Xiao-Ming Xiong; Fujita, M.; Paturi, R.;
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on
Volume 15, Issue 8, Aug. 1996 Page(s):902 - 911
Digital Object Identifier 10.1109/43.511570
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1 Optimal instruction scheduling using integer programming

Kent Wilken, Jack Liu, Mark Heffernan
May 2000 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2000 conference on Programming language design and implementation PLDI '00**, Volume 35 Issue 5
Publisher: ACM Press

Full text available: pdf(830.94 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a new approach to local instruction scheduling based on integer programming that produces optimal instruction schedules in a reasonable time, even for very large basic blocks. The new approach first uses a set of graph transformations to simplify the data-dependency graph while preserving the optimality of the final schedule. The simplified graph results in a simplified integer program which can be solved much faster. A new integer-programming formulation is then applie ...

2 A guide to recent advances in integer programming methods

Mary F. McGuire
January 1971 **Proceedings of the 1971 26th annual conference**
Publisher: ACM Press

Full text available: pdf(605.65 KB) Additional Information: full citation, abstract, references, index terms

This paper is intended to be a guide to the reader interested in new developments in integer programming methods over the past six years. Advances in dual, primal, enumerative and group theoretic procedures are surveyed in an attempt to bring together work that has been scattered over many journals at different times.

Keywords: Asymptotic algorithm, Branch and bound, Cutting planes, Diophantine equations, Direct search, Group-theoretic methods, Implicit enumeration, Integer programming, Knapsack problem, Modular representation, Primal methods

3 An Investigation of Some Computational Aspects of Integer Programming

A. V. Srinivasan
October 1965 **Journal of the ACM (JACM)**, Volume 12 Issue 4
Publisher: ACM Press

Full text available: pdf(662.18 KB) Additional Information: full citation, references, index terms

4 The Omega test: a fast and practical integer programming algorithm for dependence analysis
William Pugh
August 1991 **Proceedings of the 1991 ACM/IEEE conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

5 Mixed integer programming methods for computing nonmonotonic deductive databases
Colin Bell, Anil Nerode, Raymond T. Ng, V. S. Subrahmanian
November 1994 **Journal of the ACM (JACM)**, Volume 41 Issue 6
Publisher: ACM Press
Full text available: pdf(2.54 MB) Additional Information: full citation, abstract, references, citings, index terms

Though the declarative semantics of both explicit and nonmonotonic negation in logic programs has been studied extensively, relatively little work has been done on computation and implementation of these semantics. In this paper, we study three different approaches to computing stable models of logic programs based on mixed integer linear programming methods for automated deduction introduced by R. Jeroslow. We subsequently discuss the relative efficiency of these algorithms. The results of ...

Keywords: deductive databases, logic programming, nonmonotonic reasoning, operations research

6 New sufficient optimality conditions for integer programming and their application
J. M. Fleisher, R. R. Meyer
May 1978 **Communications of the ACM**, Volume 21 Issue 5
Publisher: ACM Press
Full text available: pdf(713.30 KB) Additional Information: full citation, abstract, references, index terms

The purpose of this report is to present a new class of sufficient optimality conditions for pure and mixed integer programming problems. Some of the sets of sufficient conditions presented can be thought of as generalizations of optimality conditions based on primal-dual complementarity in linear programming. These sufficient conditions are particularly useful for the construction of difficult integer programming problems with known optimal solutions. These problems may then be used to tes ...

Keywords: Kuhn-Tucker conditions, greatest common divisor, integer programming, optimality conditions, test problem construction

7 An Algorithm for the Bounded Variable Integer Programming Problem
L. E. Trotter, C. M. Shetty
July 1974 **Journal of the ACM (JACM)**, Volume 21 Issue 3
Publisher: ACM Press
Full text available: pdf(582.21 KB) Additional Information: full citation, abstract, references, index terms

An algorithm is proposed for the bounded variable pure integer programming problem which treats general integer variables directly in an implicit enumeration procedure closely related to that advanced by Balas and Geoffrion for binary programming problems. Means

of obtaining near optimum solutions through a slight modification of the algorithm are discussed. Techniques which use bounds on variables to improve algorithmic efficiency are developed and examined computationally. Further computa ...

8 Implementing deductive databases by mixed integer programming

Colin Bell, Anil Nerode, Raymond T. Ng, V. S. Subrahmanian
June 1996 **ACM Transactions on Database Systems (TODS)**, Volume 21 Issue 2
Publisher: ACM Press

Full text available: pdf(2.09 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Existing and past generations of Prolog compilers have left deduction to run-time and this may account for the poor run-time performance of existing Prolog systems. Our work tries to minimize run-time deduction by shifting the deductive process to compile-time. In addition, we offer an alternative inferencing procedure based on translating logic to mixed integer programming. This makes available for research and implementation in deductive databases, all the theorems, algorithms, and softwa ...

Keywords: minimal models, negation and disjunction in deductive databases

9 CLIP: integer-programming-based optimal layout synthesis of 2D CMOS cells

Avaneendra Gupta, John P. Hayes
July 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 3
Publisher: ACM Press
Full text available: pdf(371.02 KB) Additional Information: full citation, abstract, references, index terms

A novel technique, CLIP, is presented for the automatic generation of optimal layouts of CMOS cells in the two-dimensional (2D) style. CLIP is based on integer-linear programming (ILP) and solves both the width and height minimization problems for 2D cells. Width minimization is formulated in a precise form that combines all factors influencing the 2D cell width—transistor placement, diffusion sharing, and vertical in ...

Keywords: CMOS networks, circuit clustering, diffusion sharing, integer linear programming, integer programming, layout optimization, leaf cell synthesis, module generation, transistor chains, two-dimensional layout

10 Polynomial-Time Aggregation of Integer Programming Problems

Ravindran Kannan
January 1983 **Journal of the ACM (JACM)**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(548.81 KB) Additional Information: full citation, references, index terms

11 A read-once branching program lower bound of $\Omega(2^{n/4})$ for integer multiplication using universal hashing

Beate Bollig, Philipp Woelfel
July 2001 **Proceedings of the thirty-third annual ACM symposium on Theory of computing**
Publisher: ACM Press
Full text available: pdf(153.63 KB) Additional Information: full citation, abstract, references, citings, index terms

Branching programs (BPs) are a well-established computation and representation model

for Boolean functions. Especially read-once branching programs (BP1s) have been studied intensively. Exponential lower bounds on the BP1 complexity of explicit functions have been known for a long time. Nevertheless, the proof of exponential lower bounds on the read-once branching program size of selected functions is sometimes difficult. Motivated by the applications the BP1 complexity of fundamental funct ...

Keywords: computational complexity, integer multiplication, lower bounds, read-once branching programs

12 Parallel integer goal programming

David Arnow, Ken McAloon, Carol Tretkoff

February 1995 **Proceedings of the 1995 ACM 23rd annual conference on Computer science**

Publisher: ACM Press

Full text available: pdf(663.85 KB) Additional Information: full citation, references, index terms

13 Using integer sets for data-parallel program analysis and optimization

Vikram Adve, John Mellor-Crummey

May 1998 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1998 conference on Programming language design and implementation PLDI '98**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.90 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we describe our experience with using an abstract integer-set framework to develop the Rice dHPF compiler, a compiler for High Performance Fortran. We present simple, yet general formulations of the major computation partitioning and communication analysis tasks as well as a number of important optimizations in terms of abstract operations on sets of integer tuples. This approach has made it possible to implement a comprehensive collection of advanced optimizations in dHPF, and to ...

14 Development of a Parametric Generating Procedure for Integer Programming Test Problems

Benjamin W. Y. Lin, Ronald L. Rardin

July 1977 **Journal of the ACM (JACM)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(419.59 KB) Additional Information: full citation, references, index terms

15 Solution of Integer Programs with a Quadratic Objective Function

Ta Huu Phuong

July 1976 **Journal of the ACM (JACM)**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(445.39 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a branch and bound method for solving problems in which the objective function is quadratic, the constraints are linear, and some or all variables are required to be integer. The algorithm is obtained by grafting an inverse-basis version of Beale's method onto the Land-Doig procedure. The code has been tested on a computer, and computational results with various strategies of branching are reported.

16

The minimised geometric Buchberger algorithm: an optimal algebraic algorithm for integer programming
Qiang Li, Yi-ke Guo, Tetsuo Ida, John Darlington
July 1997 **Proceedings of the 1997 international symposium on Symbolic and algebraic computation**
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, references, index terms

17 Integer Programming Approaches to Haplotype Inference by Pure Parsimony
Daniel G. Brown, Ian M. Harrower
April 2006 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 3 Issue 2
Publisher: IEEE Computer Society Press
Full text available: pdf(768.59 KB) Additional Information: full citation, abstract, index terms

In 2003, Gusfield introduced the Haplotype Inference by Pure Parsimony (HIPP) problem and presented an integer program (IP) that quickly solved many simulated instances of the problem [1]. Although it solved well on small instances, Gusfield's IP can be of exponential size in the worst case. Several authors [2], [3] have presented polynomial-sized IPs for the problem. In this paper, we further the work on IP approaches to HIPP. We extend the existing polynomial-sized IPs by introducing several c ...

Keywords: Computations on discrete structures, integer programming, biology and genetics, haplotype inference.

18 On the parallel complexity of integer programming
X. Deng
March 1989 **Proceedings of the first annual ACM symposium on Parallel algorithms and architectures**
Publisher: ACM Press
Full text available: pdf(728.70 KB) Additional Information: full citation, citings, index terms

19 Combinatorial optimization: an integer programming perspective
Vijay Chandru, M. R. Rao
March 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(229.19 KB) Additional Information: full citation, references, index terms

20 Las Vegas algorithms for linear and integer programming when the dimension is small
Kenneth L. Clarkson
March 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 2
Publisher: ACM Press
Full text available: pdf(861.02 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper gives an algorithm for solving linear programming problems. For a problem with n constraints and d variables, the algorithm requires an expectedOd^2n+lognOd$^{d/2+O1}$+Od^4nlogn arithmetic operations, as

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1 Algorithm 397: An integer programming problem
S. K. Chang, A. Gill
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.17 KB) Additional Information: full citation, references

Keywords: change-making problem, integer programming

2 Integer Programming Approaches to Haplotype Inference by Pure Parsimony
Daniel G. Brown, Ian M. Harrower
April 2006 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 3 Issue 2
Publisher: IEEE Computer Society Press
Full text available: pdf(768.59 KB) Additional Information: full citation, abstract, index terms

In 2003, Gusfield introduced the Haplotype Inference by Pure Parsimony (HIPP) problem and presented an integer program (IP) that quickly solved many simulated instances of the problem [1]. Although it solved well on small instances, Gusfield's IP can be of exponential size in the worst case. Several authors [2], [3] have presented polynomial-sized IPs for the problem. In this paper, we further the work on IP approaches to HIPP. We extend the existing polynomial-sized IPs by introducing several c ...

Keywords: Computations on discrete structures, integer programming, biology and genetics, haplotype inference.

3 Budgeting, simulation and statistical timing: Optimal integer delay budgeting on directed acyclic graphs
E. Bozorgzadeh, S. Ghiasi, A. Takahashi, M. Sarrafzadeh
June 2003 **Proceedings of the 40th conference on Design automation**
Publisher: ACM Press
Full text available: pdf(373.56 KB) Additional Information: full citation, abstract, references, citings, index terms

Delay budget is an excess delay each component of a design can tolerate under a given

timing constraint. Delay budgeting has been widely exploited to improve the design quality. We present an optimal integer delay budgeting algorithm. Due to numerical instability and discreteness of libraries of components during library mapping in design optimization flow, integer solution for delay budgeting is essential. We prove that integer budgeting problem - a 20-year old open problem in design optimizati ...

4 Integer Programming Formulation of Traveling Salesman Problems

C. E. Miller, A. W. Tucker, R. A. Zemlin
October 1960 **Journal of the ACM (JACM)**, Volume 7 Issue 4
Publisher: ACM Press

Full text available: pdf(190.30 KB) Additional Information: full citation, abstract, references, citings, index terms

It has been observed by many people that a striking number of quite diverse mathematical problems can be formulated as problems in integer programming, that is, linear programming problems in which some or all of the variables are required to assume integral values. This fact is rendered quite interesting by recent research on such problems, notably by R. E. Gomory [2, 3], which gives promise of yielding efficient computational techniques for their solution. The present paper provides yet a ...

5 Modeling the binding policies of programming languages

Arthur Pyster, Charles Dana, Roger Wood
January 1979 **Proceedings of the 1979 annual conference**
Publisher: ACM Press
Full text available: pdf(814.28 KB) Additional Information: full citation, abstract, references, index terms

Current tools available to model binding policies are inadequate. To partially remedy this situation, we describe a scheme consisting of three major parts: • a rigorous theoretical framework for addressing binding issues. • a language in which to express binding policies. • a graphic notation in which to easily and clearly express binding policy. Preliminary results on the first two aspects are reported here. Expressions of binding ...

Keywords: Algebraic semantics, Binding, Many-sorted algebras, PASTE, Programming languages, Semantic models

6 Syntactic type abstraction

Dan Grossman, Greg Morrisett, Steve Zdancewic
November 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 6
Publisher: ACM Press

Full text available: pdf(453.81 KB) Additional Information: full citation, abstract, references, citings, index terms

Software developers often structure programs in such a way that different pieces of code constitute distinct principals. Types help define the protocol by which these principals interact. In particular, abstract types allow a principal to make strong assumptions about how well-typed clients use the facilities that it provides. We show how the notions of principals and type abstraction can be formalized within a language. Different principals can know the im ...

Keywords: operational semantics, parametricity, proof techniques, syntactic proofs, type abstraction

7 ACM Algorithm 396: Student's t-Quantiles

G. W. Hill

October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.17 KB) Additional Information: full citation, references

Keywords: asymptotic expansion, quantile, student's t-statistic

8 ACM Algorithm 395: Student's t-distribution
G. W. Hill
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.17 KB) Additional Information: full citation, references, citings

Keywords: approximation, asymptotic expansion, distribution function, students t-statistic

9 An efficient implementation of SELF a dynamically-typed object-oriented language based on prototypes
C. Chambers, D. Ungar, E. Lee
September 1989 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '89**, Volume 24 Issue 10
Publisher: ACM Press
Full text available: pdf(2.41 MB) Additional Information: full citation, abstract, references, citings, index terms

We have developed and implemented techniques that double the performance of dynamically-typed object-oriented languages. Our SELF implementation runs twice as fast as the fastest Smalltalk implementation, despite SELF's lack of classes and explicit variables. To compensate for the absence of classes, our system uses implementation-level maps to transparently group objects cloned from the same prototype, providing data type information and eliminating the apparent ...

10 Algorithm 399: Spanning tree
Jouko J. Seppänen
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.18 KB) Additional Information: full citation, references

Keywords: graph, spanning tree, tree

11 Specifying Concurrent Program Modules
Leslie Lamport
April 1983 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 5 Issue 2
Publisher: ACM Press
Full text available: pdf(2.03 MB) Additional Information: full citation, references, citings, index terms

October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.17 KB) Additional Information: full citation, references

Keywords: asymptotic expansion, quantile, student's t-statistic

8 ACM Algorithm 395: Student's t-distribution
G. W. Hill
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.17 KB) Additional Information: full citation, references, citings

Keywords: approximation, asymptotic expansion, distribution function, students t-statistic

9 An efficient implementation of SELF a dynamically-typed object-oriented language based on prototypes
C. Chambers, D. Ungar, E. Lee
September 1989 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '89**, Volume 24 Issue 10
Publisher: ACM Press
Full text available: pdf(2.41 MB) Additional Information: full citation, abstract, references, citings, index terms

We have developed and implemented techniques that double the performance of dynamically-typed object-oriented languages. Our SELF implementation runs twice as fast as the fastest Smalltalk implementation, despite SELF's lack of classes and explicit variables. To compensate for the absence of classes, our system uses implementation-level maps to transparently group objects cloned from the same prototype, providing data type information and eliminating the apparent ...

10 Algorithm 399: Spanning tree
Jouko J. Seppänen
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.18 KB) Additional Information: full citation, references

Keywords: graph, spanning tree, tree

11 Specifying Concurrent Program Modules
Leslie Lamport
April 1983 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 5 Issue 2
Publisher: ACM Press
Full text available: pdf(2.03 MB) Additional Information: full citation, references, citings, index terms

12 Remark on algorithm 368: Numerical inversion of Laplace transforms

Harald Stehfest
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.18 KB) Additional Information: full citation

Keywords: Laplace transform inversion, integral equations, integral transformations

13 Remark on algorithm 347: An efficient algorithm for sorting with minimal storage

Richard Peto
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.18 KB) Additional Information: full citation, citings

Keywords: digital computer sorting, minimal storage sorting, ranking, sorting

14 Remark on algorithm 304: Normal curve integral

Bo Holmgren
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.18 KB) Additional Information: full citation

Keywords: normal curve integral, probability, special functions

15 Algorithm 400: Modified Havie integration

George C. Wallick
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.18 KB) Additional Information: full citation, references, citings

Keywords: Havie integration, Romberg quadrature, modified Romberg-quadrature, numerical integration, rectangle values, trapezoid values

16 Algorithm 398: Tableless date conversion

Richard A. Stone
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.17 KB) Additional Information: full citation

Keywords: calendar, date

17 Algorithm 396: Student's t-quantiles

G. W. Hill
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.17 KB) Additional Information: full citation, references

Keywords: Student's t-statistic, asymptotic approximation, quantile

18 Algorithm 395: Students t-distribution

G. W. Hill
October 1970 **Communications of the ACM**, Volume 13 Issue 10
Publisher: ACM Press
Full text available: pdf(748.17 KB) Additional Information: full citation, references

Keywords: approximation, asymptotic expansion, distribution function, student's t-statistic

19 The international standardization of Modula-2

K. N. King
February 1989 **Proceedings of the 17th conference on ACM Annual Computer Science Conference**
Publisher: ACM Press
Full text available: pdf(745.92 KB) Additional Information: full citation, abstract, references, index terms

The process of creating an international standard for the Modula-2 programming language is now well underway. This paper (an updated and expanded version of [12]) describes current standardization efforts and sketches a number of changes being planned for the language.

20 The humble fraction

Nigel Perry
December 1999 **ACM SIGCSE Bulletin , Working group reports from ITiCSE on Innovation and technology in computer science education ITiCSE-WGR '99**, Volume 31 Issue 4
Publisher: ACM Press
Full text available: pdf(522.13 KB) Additional Information: full citation, abstract, citings, index terms

In this paper we examine how trends in programming methodology support the definition of value types. We ask the question have we really advanced in the move from traditional to OO methodologies, have we produced square wheels, or have we just changed terminology? We ask this to determine what we should be teaching our students. The work was motivated by a concern that students, through what is, or is not, taught, are missing or rejecting the lessons of history and producing poorer designs becau ...

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Computers, Environment and Urban Systems, Volume 23, Issue 5, 1 September 1999, Pages 359-382
R. M. Krzanowski and J. Raper
SummaryPlus | Full Text + Links | PDF (604 K)

3. ☐ **Constraint logic programming for examination timetabling** • ARTICLE
The Journal of Logic Programming, Volume 26, Issue 2, February 1996, Pages 217-233
P. Boizumault, Y. Delon and L. Peridy
Abstract | Abstract + References | PDF (977 K)

4. ☐ **Graph partitioning applied to the logic testing of combinational circuits** • ARTICLE
Discrete Applied Mathematics, Volume 62, Issues 1-3, 8 September 1995, Pages 131-165
Madlaine Davis-Moradkhan and Catherine Roucairol
Abstract | Abstract + References | PDF (2082 K)

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☐ 1. **An economic analysis and operations research of wildfire management**
by *Donovan, Geoffrey Harold*, Ph.D., **Colorado State University**, 2001, 55 pages; AAT 3013836

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☐	L6	andrzejak.in.	10
☐	L5	L2 and (placement same variable?)	7
☐	L4	L2 and (unsatisfied with constraint?)	6
☐	L3	L2 and (value change same search solution)	4
☐	L2	integer programming and (value with change)	151
☐	L1	andrzejak.in. and integer programming	4

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☐ 1. Document ID: US 20050265359 A1

L1: Entry 1 of 4 File: PGPB Dec 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050265359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050265359 A1

TITLE: Optimizing switch port assignments

PUBLICATION-DATE: December 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Drew, Julie Ward	Redwood City	CA	US
Andrzejak, Artur	Berlin		DE

US-CL-CURRENT: 370/400

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20050033844 A1

L1: Entry 2 of 4 File: PGPB Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033844
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050033844 A1

TITLE: Incorporating constraints and preferences for determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/226; 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20050021831 A1

L1: Entry 3 of 4 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021831
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021831 A1

TITLE: Determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20050021583 A1

L1: Entry 4 of 4 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021583 A1

TITLE: Determination of one or more variables to receive value changes in local search solution of integer programming problem

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 708/446

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20050265359 A1

L3: Entry 1 of 4 File: PGPB Dec 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050265359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050265359 A1

TITLE: Optimizing switch port assignments

PUBLICATION-DATE: December 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Drew, Julie Ward	Redwood City	CA	US
Andrzejak, Artur	Berlin		DE

US-CL-CURRENT: 370/400

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 2. Document ID: US 20050033844 A1

L3: Entry 2 of 4 File: PGPB Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033844
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050033844 A1

TITLE: Incorporating constraints and preferences for determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/226; 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 3. Document ID: US 20050021831 A1

L3: Entry 3 of 4 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021831
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021831 A1

TITLE: Determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20050021583 A1

L3: Entry 4 of 4 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021583 A1

TITLE: Determination of one or more variables to receive value changes in local search solution of integer programming problem

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 708/446

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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Term	Documents

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☐ 1. Document ID: US 20050265359 A1

L4: Entry 1 of 6 File: PGPB Dec 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050265359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050265359 A1

TITLE: Optimizing switch port assignments

PUBLICATION-DATE: December 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Drew, Julie Ward	Redwood City	CA	US
Andrzejak, Artur	Berlin		DE

US-CL-CURRENT: 370/400

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20050021583 A1

L4: Entry 2 of 6 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021583 A1

TITLE: Determination of one or more variables to receive value changes in local search solution of integer programming problem

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 708/446

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20050010922 A1

L4: Entry 3 of 6 File: PGPB Jan 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050010922
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050010922 A1

TITLE: Solutions for constraint satisfaction problems requiring multiple constraints

PUBLICATION-DATE: January 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Czajkowski, Greg	San Francisco	CA	US
Miller, Mike F.	Hillsboro	OR	US

US-CL-CURRENT: 718/102

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 6031984 A

L4: Entry 4 of 6 File: USPT Feb 29, 2000

US-PAT-NO: 6031984
DOCUMENT-IDENTIFIER: US 6031984 A
** See image for Certificate of Correction **

TITLE: Method and apparatus for optimizing constraint models

DATE-ISSUED: February 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walser; Joachim P.	Saarbrucken			DE

US-CL-CURRENT: 703/2; 706/13, 706/45

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 5428712 A

L4: Entry 5 of 6 File: USPT Jun 27, 1995

US-PAT-NO: 5428712
DOCUMENT-IDENTIFIER: US 5428712 A

TITLE: System and method for representing and solving numeric and symbolic problems

DATE-ISSUED: June 27, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Elad; Joseph B.	Claymont	DE		
Johnson; Apperson H.	Wilmington	DE		
Kramer; Laurence A.	North East	MD		
Kirk; Jeffrey C.	Newtown Square	PA		
Philips; Irene H.	New Castle	DE		
Zickus; Susan M.	Wilmington	DE		
Chester; Daniel L.	Newark	DE		
Saniga; Erwin M.	Little Britain	PA		
Norman, III; William M.	Landenberg	PA		

US-CL-CURRENT: 706/46; 706/10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 6. Document ID: US 5195172 A

L4: Entry 6 of 6 File: USPT Mar 16, 1993

US-PAT-NO: 5195172
DOCUMENT-IDENTIFIER: US 5195172 A

TITLE: System and method for representing and solving numeric and symbolic problems

DATE-ISSUED: March 16, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Elad; Joseph B.	Claymont	DE		
Johnson; Apperson H.	Wilmington	DE		
Kramer; Laurence A.	North East	MD		
Kirk; Jeffrey C.	Newtown Square	PA		
Philips; Irene H.	New Castle	DE		
Zickus; Susan M.	Wilmington	DE		
Chester; Daniel L.	Newark	DE		
Saniga; Erwin M.	Little Britain	PA		

US-CL-CURRENT: 706/62; 705/7, 706/10, 706/11, 706/46, 706/53, 708/1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20050265359 A1

L5: Entry 1 of 7 File: PGPB Dec 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050265359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050265359 A1

TITLE: Optimizing switch port assignments

PUBLICATION-DATE: December 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Drew, Julie Ward	Redwood City	CA	US
Andrzejak, Artur	Berlin		DE

US-CL-CURRENT: 370/400

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20050033844 A1

L5: Entry 2 of 7 File: PGPB Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033844
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050033844 A1

TITLE: Incorporating constraints and preferences for determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/226; 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20050021831 A1

L5: Entry 3 of 7 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021831
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021831 A1

TITLE: Determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20040230922 A1

L5: Entry 4 of 7 File: PGPB Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040230922
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040230922 A1

TITLE: Practical method for hierarchical-preserving layout optimization of integrated circuit layout

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Allen, Robert J.	Jericho	VT	US
Heng, Fook-Luen	Yorktown Heights	NY	US
Lvov, Alexey Y.	Peekskill	NY	US
McCullen, Kevin W.	Essex Junction	VT	US
Peri, Sriram	South Burlington	VT	US
Tellez, Gustavo E.	Essex Junction	VT	US

US-CL-CURRENT: 716/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 20040181802 A1

L5: Entry 5 of 7 File: PGPB Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040181802
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040181802 A1

TITLE: Methods and apparatus for scheduling broadcast commercials

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bollapragada, Srinivas	Niskayuna	NY	US
Garbiras, Marc Anthony	Clifton Park	NY	US

US-CL-CURRENT: 725/36; 705/14

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 6. Document ID: US 6986109 B2

L5: Entry 6 of 7 File: USPT Jan 10, 2006

US-PAT-NO: 6986109
DOCUMENT-IDENTIFIER: US 6986109 B2

TITLE: Practical method for hierarchical-preserving layout optimization of integrated circuit layout

DATE-ISSUED: January 10, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040230922 A1	November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Robert J.	Jericho	VT		US
Heng; Fook-Luen	Yorktown Heights	NY		US
Lvov; Alexey Y.	Peekskill	NY		US
McCullen; Kevin W.	Essex Junction	VT		US
Peri; Sriram	South Burlington	VT		US
Tellez; Gustavo E.	Essex Junction	VT		US

US-CL-CURRENT: 716/2; 716/1, 716/10, 716/9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 7. Document ID: US 6654379 B1

L5: Entry 7 of 7 File: USPT Nov 25, 2003

US-PAT-NO: 6654379
DOCUMENT-IDENTIFIER: US 6654379 B1

TITLE: Integrated ring-mesh network

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grover; Wayne D.	Edmonton			CA
Martens; Randy G.	Garland	TX		

US-CL-CURRENT: 370/406; 370/223

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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Term	Documents
PLACEMENT	384215
PLACEMENTS	12030
VARIABLE?	0
VARIABLEA	4
VARIABLEB	1
VARIABLED	15
VARIABLEE	4
VARIABLEI	1
VARIABLEJ	1
VARIABLEL	7
VARIABLEM	1
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☐ 1. Document ID: US 20050265359 A1

L6: Entry 1 of 10 File: PGPB Dec 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050265359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050265359 A1

TITLE: Optimizing switch port assignments

PUBLICATION-DATE: December 1, 2005

INVENTOR-INFORMATION:

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Drew, Julie Ward	Redwood City	CA	US
Andrzejak, Artur	Berlin		DE

US-CL-CURRENT: 370/400

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20050033844 A1

L6: Entry 2 of 10 File: PGPB Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033844
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050033844 A1

TITLE: Incorporating constraints and preferences for determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/226; 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20050021831 A1

L6: Entry 3 of 10 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021831
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021831 A1

TITLE: Determining placement of distributed application onto distributed resource infrastructure

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 709/235

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20050021583 A1

L6: Entry 4 of 10 File: PGPB Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050021583 A1

TITLE: Determination of one or more variables to receive value changes in local search solution of integer programming problem

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Graupner, Sven	Mountain View		US

US-CL-CURRENT: 708/446

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 20040210624 A1

L6: Entry 5 of 10 File: PGPB Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040210624

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040210624 A1

TITLE: Storing attribute values of computing resources in a peer-to-peer network

PUBLICATION-DATE: October 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andrzejak, Artur	Berlin	CA	DE
Xu, Zhichen	Sunnyvale		US

US-CL-CURRENT: 709/201

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 6. Document ID: US 20040128384 A1

L6: Entry 6 of 10 File: PGPB Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040128384
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040128384 A1

TITLE: Admission control for applications in resource utility environments

PUBLICATION-DATE: July 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rolia, Jerome Alexander	Kanata	CA	CA
Zhu, Xiaoyun	San Jose		US
Arlitt, Martin Fraser	Calgary		CA
Andrzejak, Artur	Berlin		DE

US-CL-CURRENT: 709/226

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 7. Document ID: US 5379646 A

L6: Entry 7 of 10 File: USPT Jan 10, 1995

US-PAT-NO: 5379646
DOCUMENT-IDENTIFIER: US 5379646 A

TITLE: Seatback load applying device

DATE-ISSUED: January 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Andrzejak; Dennis V.	Royal Oak	MI		
Hering; William E.	Washington	MI		
Viano; David C.	Bloomfield Hills	MI		

US-CL-CURRENT: 73/804; 73/862.542, 73/865.9, 73/866.4, 901/16, 901/48, 92/161

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 8. Document ID: US 3749387 A

L6: Entry 8 of 10 File: USPT Jul 31, 1973

US-PAT-NO: 3749387
DOCUMENT-IDENTIFIER: US 3749387 A

TITLE: METHOD AND DEVICE FOR SHROUDING A STREAM OF METAL TEEMED THROUGH A SLIDABLE GATE

DATE-ISSUED: July 31, 1973

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Andrzejak; Sigmund L.	Chicago	IL	60617	
Berg; Raymond B.	Calumet City	IL	60409	

US-CL-CURRENT: 222/512; 164/136, 164/337, 164/439

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 9. Document ID: US 3684267 A

L6: Entry 9 of 10 File: USPT Aug 15, 1972

US-PAT-NO: 3684267
DOCUMENT-IDENTIFIER: US 3684267 A

TITLE: APPARATUS FOR INTRODUCING GAS TO HOT METAL IN A BOTTOM-POUR VESSEL

DATE-ISSUED: August 15, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Andrzejak; Sigmund L.	Chicago	IL		
Orehoski; Michael A.	Duquesne	PA		
Shapland; James T.	Wilkins Township, Allegheny County	PA		

US-CL-CURRENT: 222/600; 222/261

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 10. Document ID: US 3262161 A

L6: Entry 10 of 10 File: USPT Jul 26, 1966

US-PAT-NO: 3262161
DOCUMENT-IDENTIFIER: US 3262161 A

TITLE: Sealing and insulating means for continuous casting starter bars [TEXT AVAILABLE IN USOCR DATABASE]

DATE-ISSUED: July 26, 1966

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
ANDRZEJAK SIGMUND L				
KEENE ROBERT J				

US-CL-CURRENT: 164/425

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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Term	Documents
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(ANDRZEJAK.IN.).PGPB,USPT.	10

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